

Title (en)

TECHNIQUES FOR EFFICIENT POWER TRANSFERS IN A CAPACITIVE WIRELESS POWERING SYSTEM

Title (de)

VERFAHREN FÜR EFFIZIENTE STROMÜBERTRAGUNGEN IN EINEM DRAHTLOSEN KAPAZITIVEN STROMSYSTEM

Title (fr)

PROCÉDÉS POUR UN TRANSFERT DE PUSSANCE EFFICACE DANS UN SYSTÈME D'ALIMENTATION SANS FIL CAPACITIF

Publication

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Application

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Abstract (en)

[origin: WO2013024391A1] A capacitive powering system(100) comprises a low power driver (111), a high power driver (112), a plurality of pairs of transmitter electrodes separated into a plurality of power sub-areas (210-1, 210-N) including at least a group of high power sub-areas (210-1, 210-M) connected to the high power driver and a group of low power sub-areas (210-M+1, 210-N) connected to the low power driver, and an insulating layer (130) having a first side and a second side opposite to each other, the pairs of plurality of transmitter electrodes are coupled to the first side of the insulating layer. The system is configured to form a capacitive impedance between the pairs of plurality of transmitter electrodes and a plurality of pairs of receiver electrodes (141, 144) placed in proximity to the second side of the insulating layer to wirelessly power each load connected to each of the pair of receiver electrodes.

IPC 8 full level

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